

WHAT IS CLAIMED IS:

1. A map data processing apparatus comprising:
 - a map data storage unit configured to store map data;
 - a differential data input unit configured to input
 - 5 differential data representing the difference between current map data stored in the map data storage unit and the most recent map data in a script format for each version; and
 - a map data multiple update unit configured to update the map data in the map data storage unit to the most recent map
 - 10 data using the differential data corresponding to the version.
2. The map data processing apparatus as claimed in claim 1, wherein the map data is made up of a plurality of elements.
- 15 3. The map data processing apparatus as claimed in claim 1,
 - wherein the map data multiple update unit includes a batch update data generation unit configured to generate batch update data from a plurality of pieces of differential data; and
 - 20 the map data multiple update unit uses the generated batch update data to update the map data.
4. The map data processing apparatus as claimed in claim 1, wherein the map data multiple update unit updates a plurality
- 25 of pieces of differential data in order from the differential

data in an earlier version to the differential data in a later version.

5 5. The map data processing apparatus as claimed in claim 1, further comprising: a map data storing unit configured to store already updated map data;

 wherein the already updated map data is additionally stored in the map data storing unit.

10 6. The map data processing apparatus as claimed in claim 1, further comprising: a map data storing unit configured to store already updated map data;

 wherein the data stored in the map data storing unit is overwritten with the updated map data.

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7. A map data processing apparatus, comprising:
 a map data storage unit configured to store map data;
 a communication unit configured to transmit the version of the map data stored in the map data storage unit to an external
20 system and to receive the corresponding differential data represented in a script format based on the version information;
 and

 a map data multiple update unit configured to update the map data in the map data storage unit to the most recent map
25 data using the differential data.

8. A center system, comprising:

a communication unit configured to communicate with a map data processing apparatus;

5 a differential data storage unit configured to store differential data represented in a script format for each version; and

a transmission data determination unit configured to determine the differential data to be transmitted from the differential data storage unit to the map data processing apparatus based on version information received through the communication unit from the map data processing apparatus;

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wherein the differential data determined by the transmission data determination unit is transmitted to the map data processing apparatus through the communication unit.

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